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Wisconsin Department of Commerce

Evaluation # 200414-I

Safety & Buildings Division
201 West Washington Avenue
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Madison, WI 53701-2658

Wisconsin
Building Products Evaluation

Material	Modular Sandwich Panels for Walk-In-Coolers and Freezers
Manufacturer	Leer Limited Partnership 206 Leer Street New Lisbon, WI 53950

SCOPE OF EVALUATION

GENERAL: This report evaluates the use of foam plastic material in walk-in coolers and freezers, manufactured by Leer Limited Partnership.

The **IBC** requirements below in accordance with the current **Wisconsin Amended ICC Code:**

- **Foamed–in-place Urethane Core:** The Leer foam plastic sandwich panel was evaluated under the foam plastic requirements in accordance with **ss. IBC 2603.1, 2603.2, 2603.3 Exception 4., 2603.4.1.3, 2603.5.2** and **2603.7.**
- **Wall and Ceiling Panel:** The Leer foam plastic sandwich panel was evaluated as an insulated wall and ceiling panel used in walk-in coolers and freezers in accordance with **ss. IBC 2603.4.1.2, 2603.4.1.3, 2603.5.2** and **2603.7.**

The structural performance and thermal transmission properties of the panels are outside the scope of this evaluation and are subject to specific evaluation and approval by the building plan reviewer.

DESCRIPTION AND USE

Leer coolers and freezers consist of 4 to 5 inch thick wall and ceiling panels with foamed-in-place urethane insulation cores and 26-guage, embossed galvanized steel cladding. A variety of optional finishes are available. The panels have tongue and groove construction and are joined together using a cam lock fastener that is operated with a hex wrench.

TESTS AND RESULTS

Testing on the Leer 4 to 5 inch thick panels was conducted in accordance with the Underwriter's Laboratories Standard "Fire Test of Interior Finish Material, UL 1715". The Leer 4 to 5 inch thick panels have foam plastic core material, at a nominal density of 2.0 lb./ft^3 surfaced with 26 gauge (0.0179-inch) steel facers. Steel or plastic plug buttons are provided by the manufacturer for insertion into the cam-lock access holes after assembly.

SURFACE BURNING CHARACTERISTICS

	Core Material Manufacturer		5 inch thick maximum BASF Core Painted or Unpainted		5 inch thick maximum Foam Enterprises Thick Painted or Unpainted	
	BASF Autofroth 9453, 0034, 0107 & 9591	Foam Enterprises FE247HCF	Steel	Alumunum	Steel	Alumunum
Flame Spread	20	25	25	25	25	----------
Smoke Developed	400	450	Over 500	450	Over 500	----------

Test data is on file with the department.

LIMITATIONS OF APPROVAL

The **IBC** limitations below are in accordance with the current **Wisconsin Amended ICC Code:**

- **Wall and Ceiling Panel: Section IBC 2603.7** allows the use of Leer walk-in cooler and freezer panels without a thermal barrier and automatic sprinkler system based on diversified tests, to a maximum height of 11'-7" and 4 to inch thickness as required under **s. IBC 2603.4.1.3** and **s. IBC 2603.5.2**.

This approval will be valid through December 31, 2009, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The product approval is applicable to projects approved under the current edition of the applicable codes. This approval may be void for project approvals made under future applicable editions. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:
Approval Date: June 23, 2004 By: _____

Lee E. Finley, Jr.
Product & Material Review
Integrated Services Bureau